

SUPERCritical FLUID DELIVERY SYSTEM FOR SEMICONDUCTOR
WAFER PROCESSING

ABSTRACT OF THE DISCLOSURE

[0050] An elevated pressure and temperature fluid processing system providing a pressurized fluid delivery system including a process fluid supply system and pump for supplying a process fluid at a process pressure, and a process fluid heater for heating the process fluid; a process chamber with a process chamber heater; and a process discharge collection system. The system also provides a process chamber inflow valve for connecting the pressurized fluid delivery system to the process chamber for fluid flow, and a process chamber outflow valve for connecting the process chamber to the collection system for fluid flow. A process chamber bypass valve connects the pressurized fluid delivery system to the process discharge collection system so as to bypass the process chamber. A computer control system controls the pump, the process fluid heater, the chamber heater, and the valves.